

500 N Screw Flat Grips for AGS-X Series and EZ-X Series

500 N (110 lbf) screw flat grips are for use with low-capacity AGS-X series and EZ-X series load cells and come with flat grip faces. Similar to standard screw flat grips, these grips are versatile and are used for static tensile testing a wide range of materials, including rubbers, plastics, textiles, cloth, and paper, in film form.

These grips are available as a grip set containing upper and lower grips or as only an upper grip. The upper grip screws directly into the load cell and is compatible with AGS-X series 5 N (1.1 lbf) to 100 N (22 lbf) load cells and EZ-X series 5 N to 500 N load cells. Compatibility with larger-capacity load cells requires additional coupling joints. The lower grip fits into the lower joint of the universal tester.

Relevant Materials

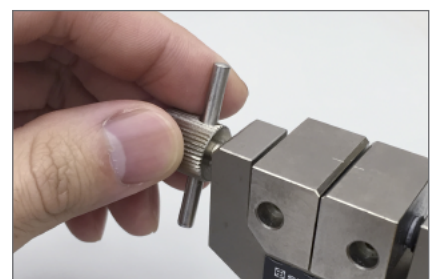
Rubber, Plastics, Textiles, Cloth, Paper

Relevant Specimens

Films, Plates

Operation

After placing the specimen between the grip faces, the specimen is clamped by finger tightening the bar handles on each side of the grip. To aid centering of the specimen, the grip body and grip faces include center markers.

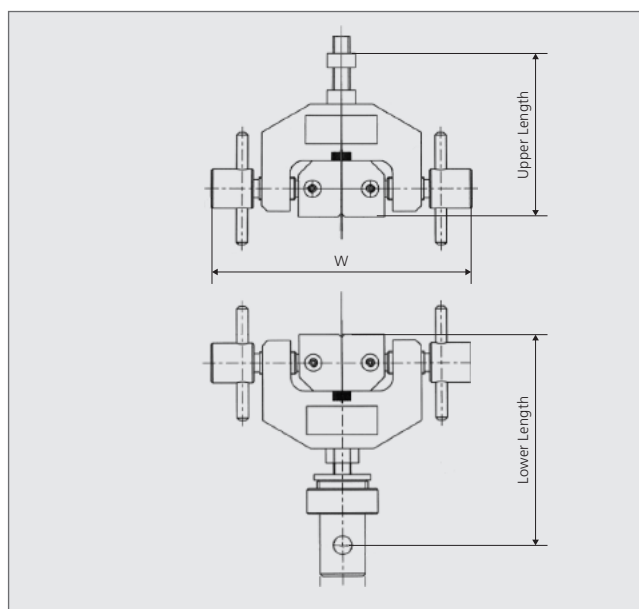


Grip operation

Specification

Grip Capacity			Applicable Specimen Thickness	Grip Face Size		Temperature Range	Grip Size		Upper Grip Mass	Upper Grip Fitting	Lower Grip Ø Fitting (Ø pin)
				Width	Length		Width	Length Upper / Lower Note 1			
kN	kgf	lbf	mm (in)	mm (in)	mm (in)	°C (°F)	mm (in)	mm (in)	kg (lb)	mm	mm
0.5	50	110	0 to 5 (0 to 0.20)	25 (0.98)	20 (0.79)	0 to 40 (32 to 104)	92 (3.6)	58 / 72 (2.3 / 2.8)	0.41 (0.90)	M6 screw, 1.0 pitch	16 (6.5)

Note 1: The length of the upper grip is from the bottom of the load cell to the tip of the grip. The lower grip length is from the mounting pin to the tip of the grip.



Ordering Information

P/N	Description
346-51690-03	500 N Screw Flat Grip Set with Flat Grip Faces Includes: upper and lower grips and flat grip faces
346-51690-01	Upper 500 N screw flat grip with flat grip faces

First Edition: February, 2015



Company names, product/service names and logos used in this publication are trademarks and trade names of Shimadzu Corporation or its affiliates, whether or not they are used with trademark symbol "TM" or "®". Third-party trademarks and trade names may be used in this publication to refer to either the entities or their products/services. Shimadzu disclaims any proprietary interest in trademarks and trade names other than its own.

For Research Use Only. Not for use in diagnostic procedures. The contents of this publication are provided to you "as is" without warranty of any kind, and are subject to change without notice. Shimadzu does not assume any responsibility or liability for any damage, whether direct or indirect, relating to the use of this publication.